

MISSOURI DEPARTMENT OF NATURAL RESOURCES ENERGY CENTER - ENERGY LOAN PROGRAM

WALL OR CEILING INSULATION WORKSHEET

BUILDING	IG LOCATIO	IN .	DATE
BOILDING	LOCATIO	111	DATE
CHECK THE TYPE OF INSULATION PROJECT UNDER CONSIDERATION			
To estimate the savings of adding insulation to the ceiling or wall, the following information must be known:			
The area to be insulated in square feet. The old R-value.			
The new total R-value. The heating plant efficiency (in percent). (Check nameplate or with contractor).			
The heating energy cost (\$/million Btu).			
SAVINGS CALCULATIONS			
1.	Enter the old R-value		
2.	Enter the new total R-value		
3.	Subtract line 1 from line 2		
4.	Multiply line 1 by line 2		
5.	Divide line 3 by line 4		
6.	Enter the area to be insulated (square feet)		
7.	Multiply line 5 by line 6		
8.	Enter the heating plant efficiency (percent divided by 100)		
9.	Divide line 7 by line 8		
10.	Divide line 9 by 10.0		
11.	Enter the energy cost (\$/million Btu)		
ANNUAL SAVINGS			
12.	Multiply line 10 by line 11	\$	/year
PROJECT COST			
1 KOJE	201 0001		
13.	Enter the total cost to insulate the area including material, labor and design\$		
SIMDLE DAVBACK			
SIMPLE PAYBACK			
14.	Divide line 13 by line 12		years

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